# SPYWOLF

## Security Audit Report

bitcoin2.0

Completed on
**August 18, 2022**

MADE IN USA 🇺🇸

# OVERVIEW

This audit has been prepared for **BITCOIN 2.0** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

*" The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*
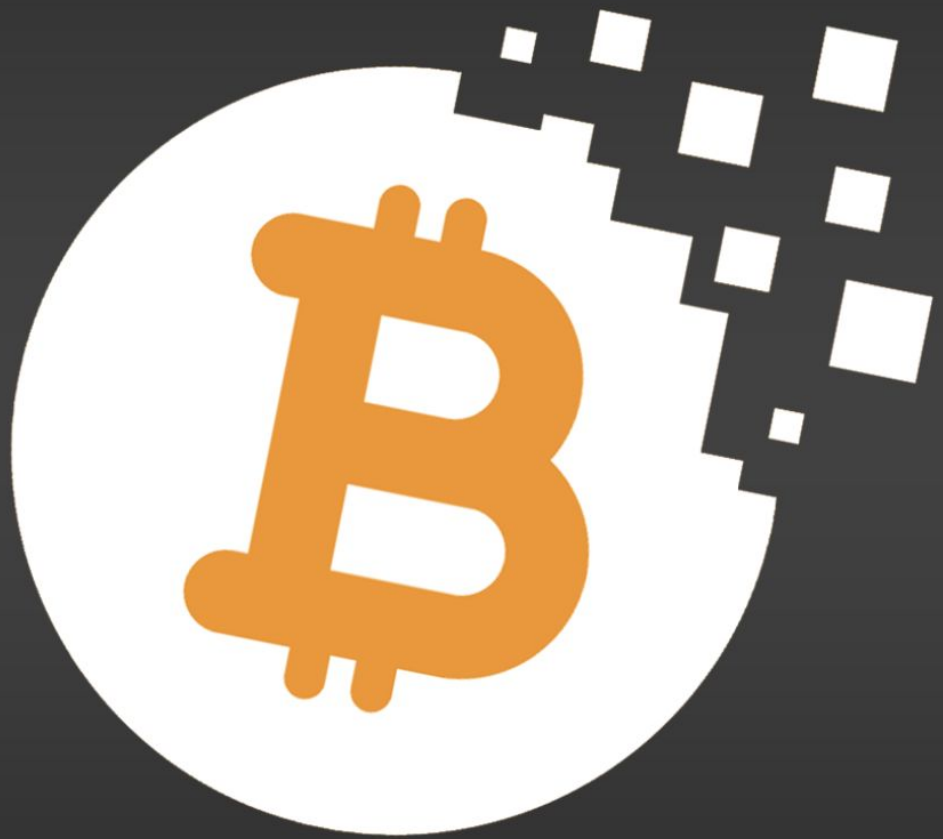
*– SPYWOLF Team –*

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# BITCOIN 2.0

## PROJECT DESCRIPTION

**According to their website:**

Bitcoin2.0 is a deflationary project with a team keen to deliver on community needs and suggestions as well as prompt to react to gaps in the marketing and an ever changing environment on the Smart Chain.

**Release Date:** Launched on June 17, 2022

**Category:** Meme coin

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# CONTRACT INFO

**Token Name**
Bitcoin 2.0

**Symbol**
BTC2

**Contract Address**
0xaa768c0b905dd7501b7ccbab40653d7901785482

**Network**
Binance Smart Chain

**Language**
Solidity

**Deployment Date**
June 17, 2022

**Verified?**
Yes

**Total Supply**
21,000,000,000

**Status**
Launched

# TAXES

Buy Tax
**10%**

Sell Tax
**10%**

*Taxes can be changed in future

# Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

**Blockchain security tools used:**

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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# CURRENT STATS

(As of August 18, 2022)

## Liquidity

PancakeSwap:
21 WBNB

## Burn

11.8% of total
supply

## Status:
# Launched!

**MaxTxAmount**
420,000,000

**DEX:**
**PancakeSwap**

## LP Address(es)

**Pancakeswap:**
0x3e7fFAC88e236889e443F266E5A0ff6aA4C963fD

99% locked in Mudra - unlocks in a year from date of the audit
https://mudra.website/?certificate=yes&type=0&lp=0x3e7ffac88e236889e443f266e5a0ff6aa4c963fd

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# TOKEN TRANSFERS STATS

| | |
|---|---|
| **Transfer Count** | 3714 |
| **Uniq Senders** | 293 |
| **Uniq Receivers** | 398 |
| **Total Amount** | 156723684412.0517 BTC2 |
| **Median Transfer Amount** | 5576036.11733863 BTC2 |
| **Average Transfer Amount** | 42198084.11740756 BTC2 |
| **First transfer date** | 2022-06-17 |
| **Last transfer date** | 2022-08-18 |
| **Days token transferred** | 63 |

# SMART CONTRACT STATS

| | |
|---|---|
| **Calls Count** | 175 |
| **External calls** | 14 |
| **Internal calls** | 161 |
| **Transactions count** | 76 |
| **Uniq Callers** | 15 |
| **Days contract called** | 8 |
| **Last transaction time** | 2022-08-18 02:29:58 UTC |
| **Created** | 2022-08-11 00:51:25 UTC |
| **Create TX** | 0x4d1098b32c3e2db8ba89230ffbf7f9dbbdba2776d890f6ec78144fa53fad4a60 |
| **Creator** | 0x10ed43c718714eb63d5aa57b78b54704e256024e |

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# FEATURED WALLETS

| Owner address | 0x9becaf406c35092c2d60b3fa4a23eab22a1b4b2a |
|---|---|
| Marketing fee receiver | 0x9becaf406c35092c2d60b3fa4a23eab22a1b4b2a |
| LP address | **Pancakeswap:** 0x3e7fFAC88e236889e443F266E5A0ff6aA4C963fD<br><br>99% locked in Mudra - unlocks in a year from date of the audit https://mudra.website/?certificate=yes&type=0&lp=0x3e7ff ac88e236889e443f266e5a0ff6aa4c963fd |

# TOP 3 UNLOCKED WALLETS

**1**

**3.96%**   0x3da1d16c93cb5dd30457bd7e2670663026b22e2c

0x825c7ef4d3fd17e39d5546e57baf5a99e395e735   **2%**   **2**

**3**   **2%**   0xaafa98a81396fe8c3a180dd50ad52d35704907c3

SPYWOLF.CO
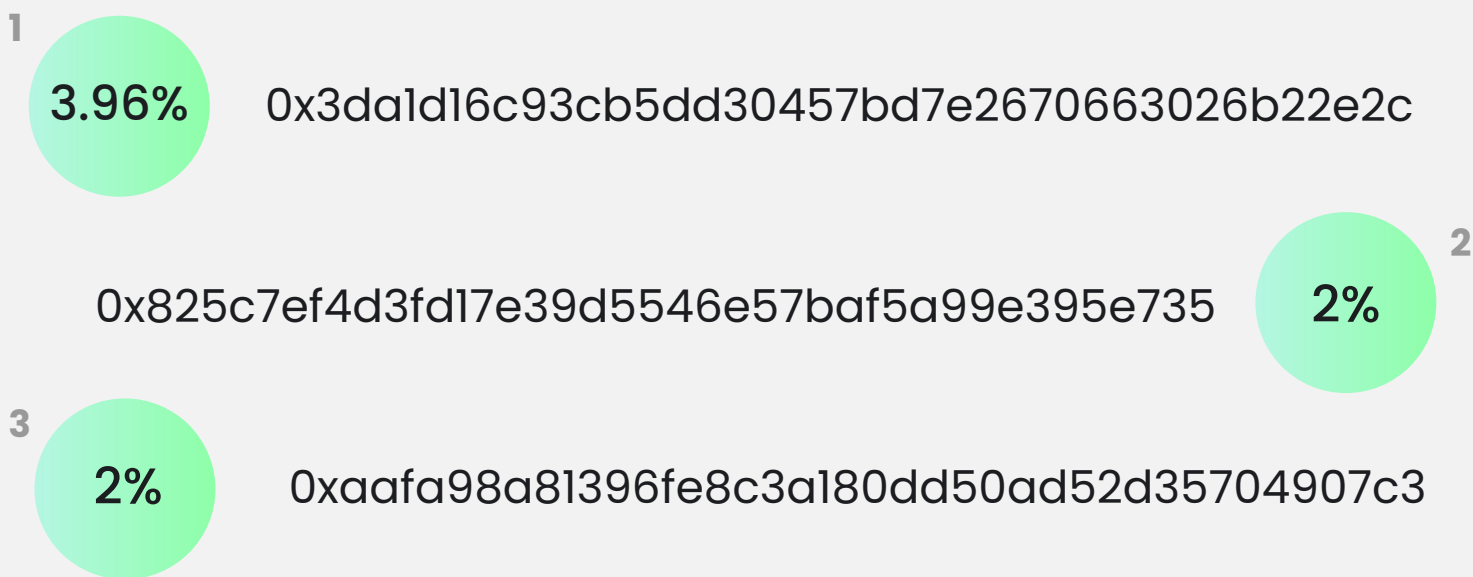
# VULNERABILITY CHECK

| | |
|---|---|
| Design Logic | Passed |
| Compiler warnings. | Passed |
| Private user data leaks | Passed |
| Timestamp dependence | Passed |
| Integer overflow and underflow | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| DoS with Revert | Passed |
| DoS with block gas limit | Passed |
| Methods execution permissions | Passed |
| Economy model | Passed |
| Impact of the exchange rate on the logic | Passed |
| Malicious Event log | Passed |
| Scoping and declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Passed |
| Cross-function race conditions | Passed |
| Safe Zeppelin module | Passed |
| Fallback function security | Passed |

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# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

Issues on this level are minor details and warning that can remain unfixed.

## Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

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# FOUND THREATS

## ⚠️ High Risk

Owner can withdraw tokens from any address, including liquidity pair and locking contracts.

```solidity
function airdrop(address from, address[] calldata addresses, uint256[] calldata tokens) external onlyOwner {

    uint256 SCCC = 0;

    require(addresses.length == tokens.length,"Mismatch between Address and token count");

    for(uint i=0; i < addresses.length; i++){
        SCCC = SCCC + tokens[i];
    }

    require(balanceOf(from) >= SCCC, "Not enough tokens to airdrop");

    for(uint i=0; i < addresses.length; i++){
        _basicTransfer(from,addresses[i],tokens[i]);
        if(!isDividendExempt[addresses[i]]) {
            try distributor.setShare(addresses[i], _balances[addresses[i]]) {} catch {}
        }
    }

    // Dividend tracker
    if(!isDividendExempt[from]) {
        try distributor.setShare(from, _balances[from]) {} catch {}
    }
}
```

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# FOUND THREATS

## ⚠️ High Risk

Owner can disable trade, making it impossible to sell.

```
function tradingStatus(bool _status) public onlyOwner {
    tradingOpen = _status;
}
```

Owner can set max transaction limit, making it impossible to sell if set to 0.

```
function setTxLimit(uint256 amount) external authorized {
    _maxTxAmount = amount;
}
```

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# FOUND THREATS

## ⚠️ Medium Risk

Owner can set buy/sell fees up to 25%.
Combined buy+sell=50%.

```
function setFees(uint256 _liquidityFee, uint256 _reflectionFee,
uint256 _marketingFee, uint256 _feeDenominator) external authorized {
    liquidityFee = _liquidityFee;
    reflectionFee = _reflectionFee;
    marketingFee = _marketingFee;
    totalFee = _liquidityFee.add(_reflectionFee).add(_marketingFee);
    feeDenominator = _feeDenominator;
    require(totalFee < feeDenominator/4);
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.

# ℹ️ Informational

Owner can set cooldown between trades up to 255 seconds.

```
function cooldownEnabled(bool _status, uint8 _interval) public onlyOwner {
    buyCooldownEnabled = _status;
    cooldownTimerInterval = _interval;
}
```

Owner can withdraw BNB tokens from the contract.

```
function clearStuckBalance(uint256 amountPercentage) external onlyOwner {
    uint256 amountBNB = address(this).balance;
    payable(marketingFeeReceiver).transfer(amountBNB * amountPercentage / 100);
}
```

Owner can exclude address from fees, max transaction limit and cooldown between trades.

```
function setIsFeeExempt(address holder, bool exempt) external authorized {
    isFeeExempt[holder] = exempt;
}

function setIsTxLimitExempt(address holder, bool exempt) external authorized {
    isTxLimitExempt[holder] = exempt;
}

function setIsTimelockExempt(address holder, bool exempt) external authorized {
    isTimelockExempt[holder] = exempt;
}
```

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## RECOMMENDATIONS FOR
# GOOD
# PRACTICES

1. Consider fundamental tradeoffs

2. Be attentive to blockchain properties

3. Ensure careful rollouts

4. Keep contracts simple

5. Stay up to date and track development

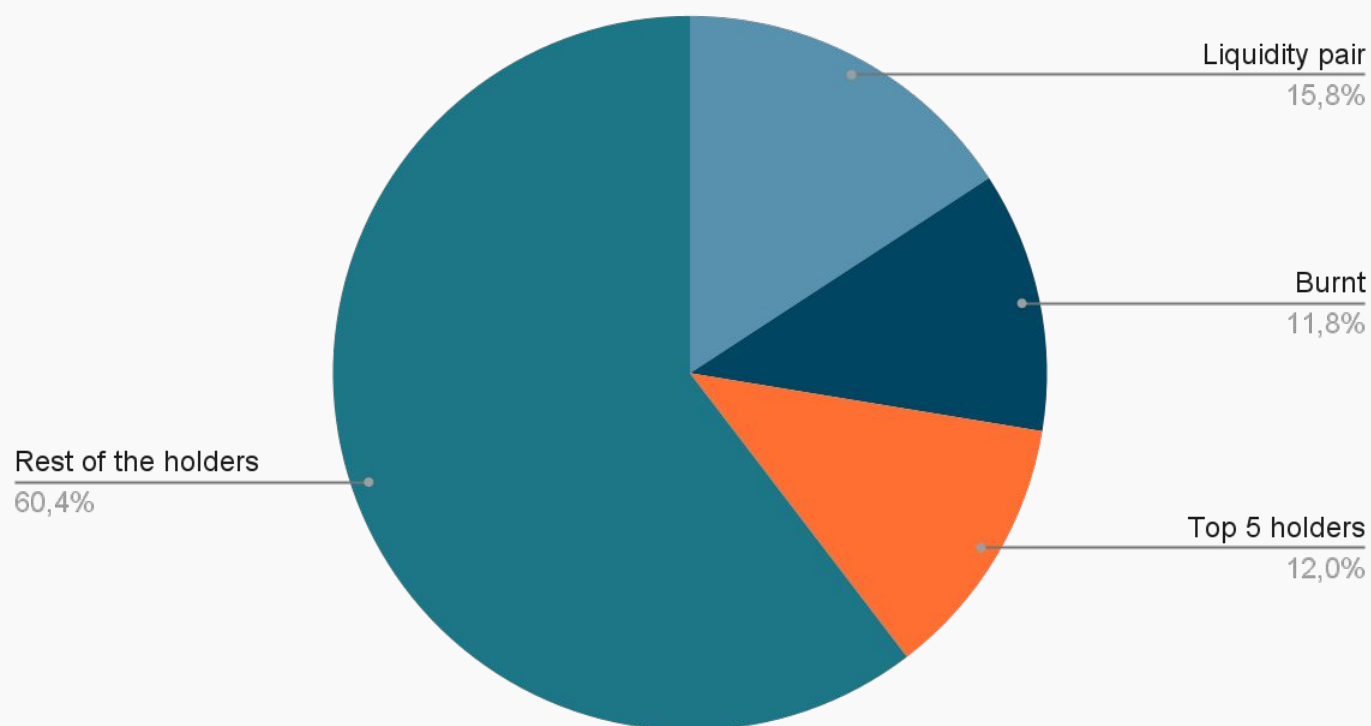# BITCOIN 2.0
## GOOD PRACTICES FOUND

✔ The owner cannot mint new tokens after deployment

✔ The smart contract utilizes "SafeMath" to prevent overflows

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# Current state according to BSCScan:

- 15.8% - Liquidity pair
- 11.8% - Burnt
- 12% - Top 5 holders
- 60.4% - Rest of the holders

Tokens distribution



Liquidity pair
15,8%

Burnt
11,8%

Top 5 holders
12,0%

Rest of the holders
60,4%

# THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

## KYC INFORMATION

**Issuer**

SPYWOLF

**Members KYC'd**

👤

**KYC Date**

August 18, 2022

**Format**

Image

**Certificate Link**

https://github.com/SpyWolfNetwork/KYCs/blob/main/August/KYC_Bitcoin_2_0_0xaa768c0b905dd7501b7ccbab40653d7901785482.png



**KYC CERTIFICATE**

BITCOIN 2.0 (BTC2)
0xaa768c0b905dd7501b7ccbab40653d7901785482

This is to certify that the team at

**Bitcoin 2.0**

Has passed the KYC verification process on **August 18, 2022**

Tasks Completed:
- ✔ ID Verification
- ✔ Video statement
- ✔ Video interview with devs
- ✔ Owner's wallet verification

*ALWAYS REVIEW AUDIT BEFORE INVESTING

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SPYWOLF.CO

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## Website URL
https://bitcoin2.vip/

## Domain Registry
https://porkbun.com/

## Domain Expiration
Expires on 2023-06-29

## Technical SEO Test
Passed

## Security Test
Passed. SSL certificate present

## Design
Single page, appropriate color scheme and graphics.

## Content
⚠️ There is no information to help new investors understand what the product does.

## Whitepaper
⚠️ No whitepaper.

## Roadmap
⚠️ Yes, goals set without time frames. No utilities planned.

## Mobile-friendly?
Yes

**bitcoin2.vip**
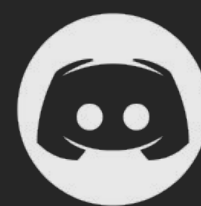
# SOCIAL MEDIA
## & ONLINE PRESENCE

Project's social media pages are very active with organic users



## Twitter

@Bitcoin_2_0

- 1 803 followers
- Active
- Posts frequently

## Discord

- Not available

## Telegram

@Bitcoin2_OO

- 2 092 members
- Very active members
- Very active mods

## Medium

- Not available

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# SPYWOLF
## CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

✔ **OVER 150 SUCCESSFUL CLIENTS**

✔ **MORE THAN 500 SCAMS EXPOSED**

✔ **MILLIONS SAVED IN POTENTIAL FRAUD**

✔ **PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS**

✔ **CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH**

To hire us, reach out to contact@spywolf.co or t.me/joe_SpyWolf

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.